

THE INVENTION CLAIMED IS:

Subas~~x~~i. Support apparatus for manufacturing equipment having a bottom outline and a plurality of load-bearing mounting feet disposed along the equipment's bottom outline comprising:

a plurality of support legs including at least one support leg aligned to each one of the plurality of load-bearing mounting feet; and

10 a frame disposed on the plurality of support legs, the frame having a frame outline which substantially duplicates the bottom outline of the manufacturing equipment.

2. The support apparatus of Claim 1 wherein each of the plurality of support legs is adapted to extend down to  
15 a base mount location on underlying flooring.

3. The support apparatus of Claim 2 wherein the underlying flooring comprises a waffle-grid floor and wherein each base mount location comprises a pad disposed at an interstice of the waffle-grid floor.

4. The support apparatus of Claim 1 wherein the frame comprises a monolithic frame.

5. The support apparatus of Claim 4 wherein the monolithic frame comprises a molded steel frame.

6. The support apparatus of Claim 1 wherein each of the plurality of support legs comprises an adjustable  
30 length leg.

7. The support apparatus of Claim 1 further comprising flanges about the periphery of the frame for supporting raised flooring.

~~Sub 8.~~ The support apparatus of Claim 1 further comprising flanges along the inner edges of the frame to support raised flooring.

9. The support apparatus of Claim 7 further comprising flanges along the inner edges of the frame to support raised flooring.

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10. The support apparatus of Claim 1 further comprising at least one facilities connection locator integrated into the periphery of the frame.

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Sub 27 11. The support apparatus of Claim 10 wherein the at least one facilities connection locator provides a plurality of connection points for connecting site facilities to the manufacturing equipment.

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12. The support apparatus of Claim 11 further comprising gooseneck couplings attached at the plurality of connection points.

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Sub 28 13. The support apparatus of Claim 1 further comprising a plurality of seismic braces each affixed to one of the support legs and adapted to fix to a piece of manufacturing equipment to be supported by the support apparatus.

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14. A manufacturing equipment installation comprising:

an underlying flooring located at a subfloor level;

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manufacturing equipment located at a raised floor level, the equipment having a plurality of load bearing mounting feet and one or more facilities connection points;

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a support frame for supporting the manufacturing equipment comprising a plurality of support legs including at least one support leg aligned to each one of the plurality of load bearing mounting feet and a frame disposed on the plurality of support legs, the frame having a frame outline which substantially duplicates the bottom

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outline of the manufacturing equipment and having a plurality of pre-defined facilities connection points aligned to the one or more facilities connection points of the manufacturing equipment; and

5 facilities supply connections extending from the subfloor level to connect to the manufacturing equipment at the plurality of pre-defined facilities connection points.

10 15. The installation of Claim 14 wherein at least one facilities connection locator is coupled to the support frame to define the plurality of pre-defined facilities connection points and wherein the facilities supply connections extend to the at least one facilities connection locator.

15 16. The installation of Claim 14 further comprising at least one seismic brace connected from at least one of the plurality of support legs to the manufacturing apparatus.

20 17. A method for providing installation of manufacturing equipment at a factory location, the equipment having a bottom outline and a plurality of mounting feet disposed along the bottom outline, comprising the steps of:

25 defining a datum point at the factory location;

defining a plurality of facilities connection point locations for manufacturing equipment support apparatus based on the datum point;

30 pre-facilitating the factory location to the plurality of facilities connection point locations;

installing manufacturing equipment support apparatus comprising a plurality of support legs including at least one support leg adapted to align to each one of the manufacturing equipment's plurality of mounting feet and a frame disposed on the plurality of support legs, the frame having a frame outline which substantially duplicates the bottom outline of the manufacturing equipment, the support

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frame having a plurality of pre-defined facilities connection points located at the facilities connection point locations; and

installing the manufacturing equipment on the  
5 manufacturing equipment support apparatus.

18. The method of Claim 17 further comprising  
pre-aligning the manufacturing equipment support apparatus to  
the datum point prior to the step of installing the  
10 manufacturing equipment support apparatus.

19. The method of Claim 17 wherein defining a plurality of facilities connection point locations for manufacturing equipment support apparatus based on the datum point comprises the steps of:

designing manufacturing equipment support  
apparatus;

20 establishing a plurality of facilities  
connection points on the manufacturing equipment support  
apparatus;

creating a portable floor map of the factory location, the map including a mapping of the manufacturing equipment support apparatus and the plurality of facilities connection points; and

25 providing the portable floor map to the  
factory location for the pre-facilitating step.

Sub 20. Support apparatus for manufacturing equipment  
having a bottom outline and a plurality of load-bearing  
30 mounting feet disposed along the equipment's bottom outline  
comprising:

a plurality of support legs including at least one support leg aligned to each one of the plurality of load-bearing mounting feet; and

35 a frame disposed on the plurality of support  
legs.

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